

Message

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**Sent:** 4/2/2019 4:20:32 AM  
**To:** Post, Gloria [Gloria.Post@dep.nj.gov]  
**Subject:** RE: PFAS of interest  
**Attachments:** Hydro EVE.sk2

Gloria,

Here are the structures for Nafion BP2, PFO4DA, PFO5DoDA, and Hydro-EVE. Here are the corresponding hyperlinks (in blue) to them in the DSS TX Chemicals dashboard. I pasted these as images so they will not work. But if you here they are hyperlinked below

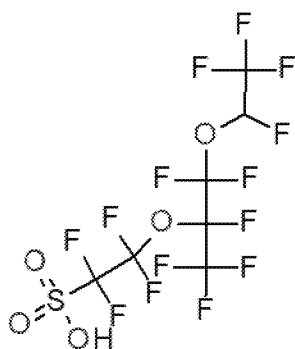
Nafion BP2 <https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID10892352>

PFO4DA <https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID90723993>

PFO5DoDA <https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID50723994>

Hydro-EVE not in production DB. See attached structure.

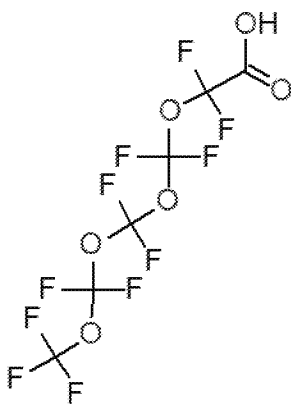
Mark



**PFESA BP2; Nafion BP2**

CAS: 749836-20-2

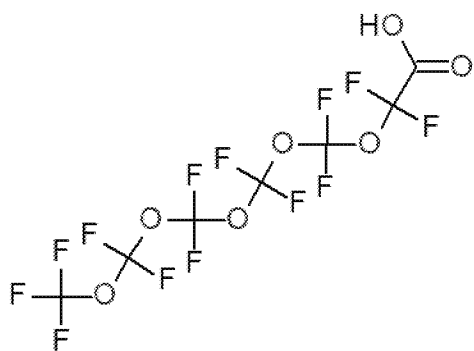
[DTXSID10892352](https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID10892352)



**PFO4DA**

CAS: 39492-90-5

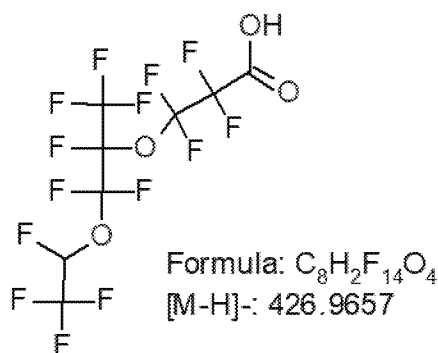
DTXSID90723993



**PFO5DoA**

CAS: 39492-91-6

DTXSID50723994



## Hydro EVE

CAS:773804-62-9

**From:** Post, Gloria <Gloria.Post@dep.nj.gov>  
**Sent:** Friday, February 15, 2019 9:12 AM  
**To:** Strynar, Mark <strynar.mark@epa.gov>  
**Subject:** FW: PFAS of interest

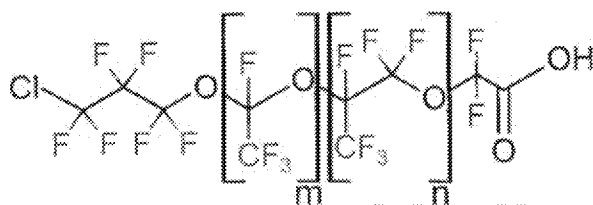
**From:** Post, Gloria  
**Sent:** Wednesday, January 30, 2019 6:39 PM  
**To:** 'Ng, Carla' <carla.ng@pitt.edu>  
**Subject:** PFAS of interest

Carla,

I am sending information on the PFAS that we are interested in learning more about. I can explain why these PFAS are of interest to NJDEP when we speak on the phone. Can you let me know when a good time for us to talk on the phone would be during the week of Feb. 12?

1. Congeners of the substance referred to as "Solvay's Product" in Figure 1 (attached) of Wang et al. (2013).

This is another version of its structure:



The congeners of interest are shown below. The 8 carbon congener is of greatest interest, but it would be great to have information on all of them.

Carbon Chain Length	Anion Formula	Number of Ethyl, Propyl Groups	
7	C <sub>7</sub> ClF <sub>12</sub> O <sub>4</sub>	1,0	
8	C <sub>8</sub> ClF <sub>14</sub> O <sub>4</sub>	0,1	
9	C <sub>9</sub> ClF <sub>16</sub> O <sub>5</sub>	2,0	
10	C <sub>10</sub> ClF <sub>18</sub> O <sub>5</sub>	1,1	
11	C <sub>11</sub> ClF <sub>20</sub> O <sub>5</sub>	0,2	
11	C <sub>11</sub> ClF <sub>20</sub> O <sub>5</sub>	3,0	
12	C <sub>12</sub> ClF <sub>22</sub> O <sub>5</sub>	2,1	
13	C <sub>13</sub> ClF <sub>24</sub> O <sub>6</sub>	1,2	
14	C <sub>14</sub> ClF <sub>26</sub> O <sub>6</sub>	0,3	

2. We would like to compare information for the congeners shown above to other PFAS ethers for which there is some information on toxicity and/or human bioaccumulation as follows. These are shown in the table below, which is excerpted from Table 1 on the website of the NC State Univ GenX Exposure Study at <https://chhe.research.ncsu.edu/the-genx-exposure-study/> . These are:

- GenX
- The four PFAS polyethers that have been found in blood serum of NC residents who were exposed to them through drinking water (see Slide 21 of <https://chhe.research.ncsu.edu/wordpress/wp-content/uploads/2018/11/Community-event-BLOOD-slides.pdf> )

I have the structures of some, but not all, of the compounds in the table below. If you need the structures, I think that the NC researchers can provide them.

Short Name	Chemical Name	Chemical Formula	CAS Number
GenX	Perfluoro-2-propoxypropanoic acid	C <sub>6</sub> HF <sub>11</sub> O <sub>3</sub>	13252-13-6
Nafion byproduct 2	Ethanesulfonic acid, 2-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-	C <sub>7</sub> H <sub>2</sub> F <sub>14</sub> O <sub>5</sub> S	749836-20-2
PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	C <sub>6</sub> HF <sub>11</sub> O <sub>6</sub>	39492-90-5
PFO5DoDA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	C <sub>7</sub> HF <sub>13</sub> O <sub>7</sub>	39492-91-6
Hydro-EVE	2,2,3,3-tetrafluoro-3-((1,1,1,2,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propan-2-yl)oxy)propanoic acid	C <sub>8</sub> H <sub>2</sub> F <sub>14</sub> O <sub>4</sub>	773804-62-9

Thank you!

Gloria